

WHAT IS CLAIMED IS:

1. A fundus camera for photographing a fundus of an eye to be examined, the camera comprising:

a fundus observation/photographing optical system, having an objective lens and a diaphragm arranged in a position approximately conjugate with a pupil of the eye with respect to the objective lens, for observing and photographing the fundus via the objective lens and the diaphragm;

an optical path bifurcating member which is arranged on an optical path between the objective lens and the diaphragm;

an anterior-segment observation optical system for observing an anterior segment of the eye via the objective lens and the optical path bifurcating member which is arranged on the optical path; and

a correction member, which is arranged on an optical path of the fundus observation/photographing optical system, for correcting a deviation of an optical axis of the fundus observation/photographing optical system caused by arrangement of the optical path bifurcating member on the optical path.

2. The fundus camera according to claim 1, further comprising an inserting and removing unit which performs insertion and removal of the optical path bifurcating member and the correction member with respect to the optical path.

3. The fundus camera according to claim 1, wherein the correction member has approximately same thickness and refractive index as the optical path bifurcating member, and is arranged, assuming that an arrangement angle of the optical path bifurcating member with respect to the optical axis of the fundus observation/photographing optical system is θ , at an arrangement angle of 180° minus θ with respect to said optical axis.

4. The fundus camera according to claim 1, further comprising:

an illumination optical system for fundus observation, for projecting illumination light for fundus observation;

an alignment index projection optical system for projecting alignment index light onto the anterior segment of the eye; and

a focus index projection optical system for projecting focus index light onto the fundus,

wherein the optical path bifurcating member is a wavelength-selecting mirror having a wavelength-selecting property of reflecting a wavelength of the alignment index light and transmitting a wavelength of the illumination light for fundus observation and a wavelength of the focus index light.

5. The fundus camera according to claim 4, further comprising an illumination optical system for

anterior-segment observation, for projecting illumination light for anterior-segment observation, wherein the wavelength-selecting mirror has a wavelength-selecting property of reflecting a wavelength of the illumination light for anterior-segment observation.

6. The fundus camera according to claim 5, wherein the fundus observation/photographing optical system has a first image-pickup element which picks up a fundus observation image and a focus index image, and the anterior-segment observation optical system has a second image-pickup element which picks up an anterior-segment observation image and an alignment index image.

7. The fundus camera according to claim 6, further comprising:

an alignment unit which performs alignment of the fundus observation/photographing optical system with the eye based on the alignment index image picked up; and

a focusing unit which performs focusing of the fundus observation/photographing optical system based on the focus index image picked up.

8. The fundus camera according to claim 1, further comprising:

an alignment index projection optical system for projecting alignment index light onto the anterior

segment of the eye;

a focus index projection optical system for projecting focus index light onto the fundus;

an alignment unit which performs alignment of the fundus observation/photographing optical system with the eye based on a detection result on an alignment index image formed on the anterior segment of the eye; and

a focusing unit which performs focusing of the fundus observation/photographing optical system based on a detection result on a focus index image formed on the fundus.